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Moulding compsn. contg. peroxide, filler and unsatd. polyester - derived from polyol, unsatd. and satd. dicarboxylic acids
Patent Assignee: SIR SOC ITAL RESINE SPA (SITR)
Number of Countries: 007 Number of Patents: 008
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
DE 2648351	A	19770512				197720	B
JP 52063286	A	19770525				197727	
FR 2329712	A	19770701				197731	
BR 7607284	A	19770913				197740	
GB 1502249	A	19780222				197808	
US 4077939	A	19780307				197813	
JP 80005528	B	19800207				198010	
CA 1074039	A	19800318				198014	

Priority Applications (No Type Date): IT 7528804 A 19751030

Abstract (Basic): DE 2648351 A
Moulding compsn. contains, by wt., (a) 10-50 (20-35)% unsatd. polyester, (b) 0.2-2(0.5-1.8)% organic peroxide decomposing above 70 (>120) degrees C and (c) inert filler(s). Unsatd. polyester is a polycondensate of a polyol with an ethylenically unsatd. dicarboxylic acid, pref. maleic and/or fumaric acid, and a satd. dicarboxylic acid, pref. phthalic, isophthalic or terephthalic acid. Polyol is an alkylene glycol, esp. ethylene- or propylene-glycol, opt. mixed with <=20 wt.% of opt. halogenated 2,21-bis(4-hydroxy-cyccIohexyl)propane. Polycondensate has m.pt. (measured in capillary tube) >=60 (60-80) degrees C; acid index 50(15-25)-mg. KOH/g. and Gardner viscosity (measured at 25 degrees C in 60 wt. % styrene soln.) V-Z2 W-Y).
Compsn. can be press.-, transfer- or injection-moulded. Moulded articles can be used as electrical or electronic parts, e.g., coiled core sheaths, casings for low-and medium voltage switches, insulators, terminal strips, sheathed cables, plugs, insulator supports and electromotor fans.
Mouldings have high dimensional stability at higher temps., low shrinkage and good electrical properties; high strength; resistance to chemicals; little water absorption and are easily coloured. Compsns. can be used as free-flowing granulates which cause no dust. They are stable at room temp., liquid within temp. limits and harden quickly at higher temps.
Derwent Class: A23; X12
International Patent Class (Additional): C08F-299/04; C08G-063/52; C08K-003/40; C08K-005/14; C08L-067/06; H01B-003/42